

Datasheet: MCA6405

BATCH NUMBER 172976

Description:	HUMAN ANTI INTERLEUKIN-1 BETA (CANAKINUMAB BIOSIMILAR)
Specificity:	IL-1 BETA
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD52287ia
Isotype:	IgG1
Quantity:	0.2 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Human IgG1 antibody selected from the HuCAL® phage display library and expressed in a mammalian cell line. This antibody is supplied as a liquid.
Preparation	Purified recombinant IgG prepared by affinity chromatography on Protein A from a mammalian cell line
Source	HKB-11
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml

ImmunogenHuman IL-1 β **Specificity**

Human Anti Interleukin-1 β antibody, clone AbD52287ia is a research grade biosimilar of the monoclonal antibody drug canakinumab. It is a recombinant human IgG1 kappa antibody of the allotype G1m3. This product is supplied in a research grade format, i.e. in PBS buffer with preservative, it is not manufactured or formulated in the same way as the therapeutic reference product. A preservative free version is available [on request](#).

Human Anti IL-1 β antibody, clone AbD52287ia, is for research use only. It is suitable as a reference standard in a pharmacokinetic (PK) bridging ELISA with anti-canakinumab antibodies.

Canakinumab is a recombinant human monoclonal antibody which binds to IL-1 β (interleukin-1 beta). It's mode of action is based on the neutralization of IL-1 β signaling, resulting in suppression of inflammation in patients with disorders of autoimmune origin. In June 2009, the FDA approved canakinumab for the treatment of cryopyrin-associated periodic syndromes (CAPS), a spectrum of autoinflammatory syndromes. In September 2016, the FDA approved it's use for three additional rare and serious auto-inflammatory diseases: tumor necrosis factor receptor associated periodic syndrome (TRAPS), hyperimmunoglobulin D syndrome (HIDS)/mevalonate kinase deficiency (MKD), and familial Mediterranean fever (FMF). In June 2020, canakinumab was FDA-approved for the indication to treat active Still's disease, including adult-onset Still's disease (AOSD).

This product is NOT FOR THERAPEUTIC USE.

Purity

>98% by SDS PAGE

Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee

12 months from date of despatch

Acknowledgements

This product and/or its use is covered by claims of U.S. patents, and/or pending U.S. and non-U.S. patent applications owned by or under license to Bio-Rad Laboratories, Inc. See bio-rad.com/en-us/trademarks for details.

Health And Safety Information

Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA6405>

Licensed Use

For *in vitro* research purposes and for commercial applications for the provision of *in vitro* testing services to support preclinical and clinical drug development. Any re-sale in any form or any other commercial application needs a written agreement with Bio-Rad.

Regulatory For research purposes only

Technical Advice Protocols and further information may be found in the [HuCAL Technical Manual](#)

Related Products

Recommended Useful Reagents

[GOAT ANTI HUMAN IgG F\(ab'\)₂:HRP \(STAR126P\)](#)

[HISPEC ASSAY DILUENT \(BUF049A\)](#)

[LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK002P\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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